

KAPLUN, M.I.

Primary adenocarcinoma of the seminal vesicles; a single observation.
Vop. onk. 11 no.9:92 '65. (MIRA 18:9)

1. Iz onkologicheskogo otdeleniya dorozhnoy bol'nitsy No.1, St.
Ufa (nachal'nik - V.F.Kulev).

KAPLUN, M. M., MARTYNOV, A. D., and SURKOV, A. I.

Kontrol' shlitsevykh soedinenii. Moskva, Mashgiz, 1948. 172 p. diagrs.

Control of splined joints.

DLC: TJ184.M285

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GIFF, B.A.; GONIKBERG, Yu.M.; KAPLUN, M.M.; LEVENSON, Ye.M.; MARKOV, N.N.;
POLYANSKIY, P.M.; SHLEZINGER, G.S.; LEVENSON, Ye.M., nauchnyy red.;
RAYBYROV, B.S., red.; KOCHENOV, M.I., red.; MALYY, D.D., red.;
PROKOP'YEVA, L.G., red.isd-va; TIKHANOV, A.Ya., tekhn.red.

[Checking devices] Kontrol'nye prispособleniya. Pod red. B.S.
Baiburova, M.I.Kochanova i D.D.Malogo. Moskva, Gos.nauchno-tekhn.
isd-vo mashinostroit.lit-ry, 1960. 338 p.

(Measuring instruments)

(MIRA 13:12)

PHASE I BOOK EXPLOITATION

SOV/5062

Gipp, B.A., Yu.M. Gonikberg, M.M. Kaplun, Ye. M. Levenson, N.N. Markov, P.M. Polyanskiy, and G.S. Shlezinger

Kontrol'nyye prisposobleniya (Inspection Equipment) Moscow, Mashgiz, 1960. 338 p.
Errata slip inserted. (Series: Progressivnyye sredstva kontrolya razmerov v mashinostroyenii)

Scientific Ed.: Ye. M. Levenson; Ed. of Publishing House: L.G. Prokof'yeva;
Tech. Ed.: A.Ya. Tikhonov; Eds. for the Series: B.S. Bayburov, M.I. Kochenov,
and D.D. Malyy; Managing Ed. for Literature on Chemical- and Textile-Machine
Building: V.I. Rybakova, Engineer.

PURPOSE: This book is intended for designers and technical personnel in the machine-building industry.

COVERAGE: The book discusses in detail the design of basic subassemblies and parts of inspection equipment which have proved valuable in shop practice. Various devices for the inspection of dimensional and nondimensional parameters of parts used in machine building are described. The book is a part of a group of works

~~Card 1/5~~

Inspection Equipment

SOV/5062

on modern means for inspection in manufacturing processes, the publication of which was recommended by the Commission for the Introduction of Progressive Methods and Means of Inspection in Machine Building of the State Scientific and Technical Committee of the Council of Ministers of the USSR. No personalities are mentioned. There are 27 references, all Soviet.

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1. Locating from a plane [of the machine part]	13
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Card 2/5

KAPLUN, M.M. inzh.

World of machines ("Machinery; its past, present, and future."
Reviewed by M.M.Kaplun). Nauka i zhizn' 27 no.10:74-75 0 '60.

(MIRA 13:10)

(Machinery)

KAPLUN, M.M. (Moskva)

"Mystery of the Siberian Platform" by V.Osipov. Reviewed by
M.M.Kaplun. Priroda 49 no.10:109-110 O '60. (MIRA 13:10)
(Yukutia--Diamond mines and mining) (Osipov, V.)

POSPELOV, Ye.M. (Moskva); KAPLUN, M.M. (Moskva)

Journeys of a scientist ("From the Arctic to the tropics" by D.I. Shcherbakov [akademik]. Reviewed by E.N.Pospelov, M.M.Kaplun).

Priroda 50 no. 7:121-122 J1 '61.

(MIRA 14:6)

(Voyages and travels)

(Shcherbakov, D.I.)

BLOSHTEYN, Ye.A.; KAPLUN, M.M.

Automation of the assembling of automobile units. Mashinostroitel'
no.2:12-13 F '62. (MIRA 15:2)
(Moscow--Automobile industry) (Automation)

RADYL'KES, Isay Savel'yovich, prof., doktor tekhn.nauk; KAPLUN, M.S.,
red.; KULAKOVSKIY, I.A., red.; MEDRISH, D.M., tekhn.red.

[Thermodynamic similitude of refrigerants and of the processes
of refrigerating machines] Termodinamicheskoe podobie rabochikh
veshchestv i protsessov kholodil'nykh mashin. Moskva, Gos.izd-vo
torg.lit-ry, 1960. 61 p. (MIRA 14:3)
(Refrigeration and refrigerating machinery)

KAPLUN, H.S. (Moskva)

Abnormal position of the bladder with Hirschsprung's disease.
Urologia 23 no.2:56-58 Mr-Apr '58. (MIRA 11:4)

1. Iz 1-y gorodskoy klinicheskoy bol'nitsy imeni N.I.Pirogova
(glavnyy vrach - zasluzhennyy vrach RSFSR L.D.Chernyshev)
(MEGACOLON, case reports
with abnorm. bladder position (Rus))
(BLADDER, abnorm.
malposition with megacolon (Rus))

ROTENBERG, Aleksandr Grigor'yevich, kand. tekhn. nauk; KAPLUN, M.S.,
red.; ANTSELOVICH, K.I., tekhn. red.

[Solenoid diaphragm valves] Solenoidnye membrannye ventili;
nauchnoe soobshchenie. Moskva, Gostorgizdat, 1962. 24 p.
(MIRA 16:3)

(Refrigeration and refrigerating machinery)
(Solenoids)

NOSKOVA, Glafira Leonidovna; PEK, Georgiy Yul'yevich; GEYMBERG, V.G.,
kand. biol. nauk, nauchnyy red.; KAPLUN, M.S., red.;
BRODSKIY, M.P., tekhn. red.

[Effect of vacuum on the microflora of refrigerated food
products] Vliianie vakuuma na mikrofloru okhlazhdennykh pi-
shchevykh produktov; nauchnye soobshcheniia. Moskva, Gos-
torgizdat, 1963. 37 p. (MIRA 16:7)
(Refrigeration and refrigerating machines)

PEREL'SHTEYN, Isaak Il'ich; BAYL'KES, I.S., nauchnyy red., doktor
tekhn.nauk, prof.; KAPLUN, M.S., red.; MAMONTOVA, H.N.,
tekhn.red.

[Investigating the thermodynamic properties of refrigerants]
Issledovanie termodinamicheskikh ~~svoystv~~ kholodil'nykh agentov.
Moskva, Gostorgizdat, 1962. 60 p. (MIRA 16:7)
(Refrigerants—Thermodynamic properties)

PEREL'SHTEYN, Isaak Il'ich; BAYL'KES, I.S., doktor tekhn. nauk,
prof., nauchnyy red.; KAPLUN, M.S., red.; ANTSELOVICH,
K.I., tekhn. red.

[Methods for the experimental testing of the thermodynamic
properties of refrigerants] Metody eksperimental'nogo is-
sledovaniia termodinamicheskikh svoistv kholodil'nykh agen-
tov; nauchnoe soobshchenie. Moskva, Gostorgizdat, 1963. 61 p.
(MIRA 16:7)

(Refrigerants--Thermodynamic properties)

RYUTOV, D.G., kand. tekhn. nauk, red.; KAPLUN, M.S., red.;
KULAKOVSKIY, I.A., red.

[New research work in the field of refrigeration engineering; abstracts of scientific research work completed during the period from 1960 to 1961] Novye issledovaniia v oblasti kholodil'noi tekhniki; referaty nauchno-issledovatel'skikh rabot, vypolnennykh v 1960-1961 gg. Moskva, 1962. 166 p. (MIRA 17:3)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti.

GOGOLIN, Anatoliy Arkad'yevich, kand. tekhn. nauk; BARULIN,
Nikolay Yakovlevich, inzh.; KAPLUN, M.S., red.; MEDRISH,
D.M., tekhn. red.

[Air conditioning] Konditsionirovanie vozdukha. Moskva,
Gostorgizdat, 1963. 126 p. (MIRA 17:2)

KAMINARSKAYA, A.K.; LIVSHITS, S.A.; OLENEV, Yu.A.; KOCHERGA, S.I.,
inzh., nauchn. red.; KAPLIN, M.S., red.; EL'KINA, E.M.,
tekhn. red.

[Drying of food products by sublimation; scientific information] Sublimatsionnaya sushka pishchevykh produktov; nauchnoe soobshchenie. Moskva, Gostorgizdat, 1963. 49 p.
(MIRA 17:3)

KOBULASHVILI, Sh.N.; ROTENBERG, A.G.; ROMANOV, M.N.; KRIVOV,
A.G.; KAPLUN, M.S., red.; MEDRISH, D.M., tekhn.red.

[New apparatus for quick freezing] Novye skoromorozil'-
nye apparaty; nauchnoe soobshchenie. Moskva, Gostorgizdat,
1963. 65 p. (MIRA 17:1)

KAPLUN, M. S. Prof.

Head of the "Laboratory for Syphilis with ...
... Treatment ...

Clinic of Dermato-Venereal Diseases, Inkhovsk Med. Inst.

KAPLUN, M. S. Prof-

USSR/Medicine - Syphilis
Medicine - Arsenic and Arsenic Compounds

Jan/Feb 1948

"The Tolerance for Arsenic Oxide in Connection with
an Accelerated Course of Syphilis Treatment," Prof
M. S. Kaplun, Director, Clinic of Skin and Venereal
Diseases, Irkutsk Med Inst, 31 pp

"Vest Vener 1 Dermat" No 1

Treatment lasts for five weeks and consists of two
injections of mapharsen per week. Treatment had to
be discontinued in only four out of 137 cases. In
35 days, 88 of the patients completed the course.
Due to the severity of their conditions, 42 cases
had to have the treatment prolonged for an average
41774

USSR/Medicine - Syphilis (Contd) Jan/Feb 1948

of one week. Treatment of ambulatory cases depends
on the degree to which the physician is able to con-
trol the actions of the patients during the course
of the treatment, as well as the interval between
each of the applications of mapharsen.

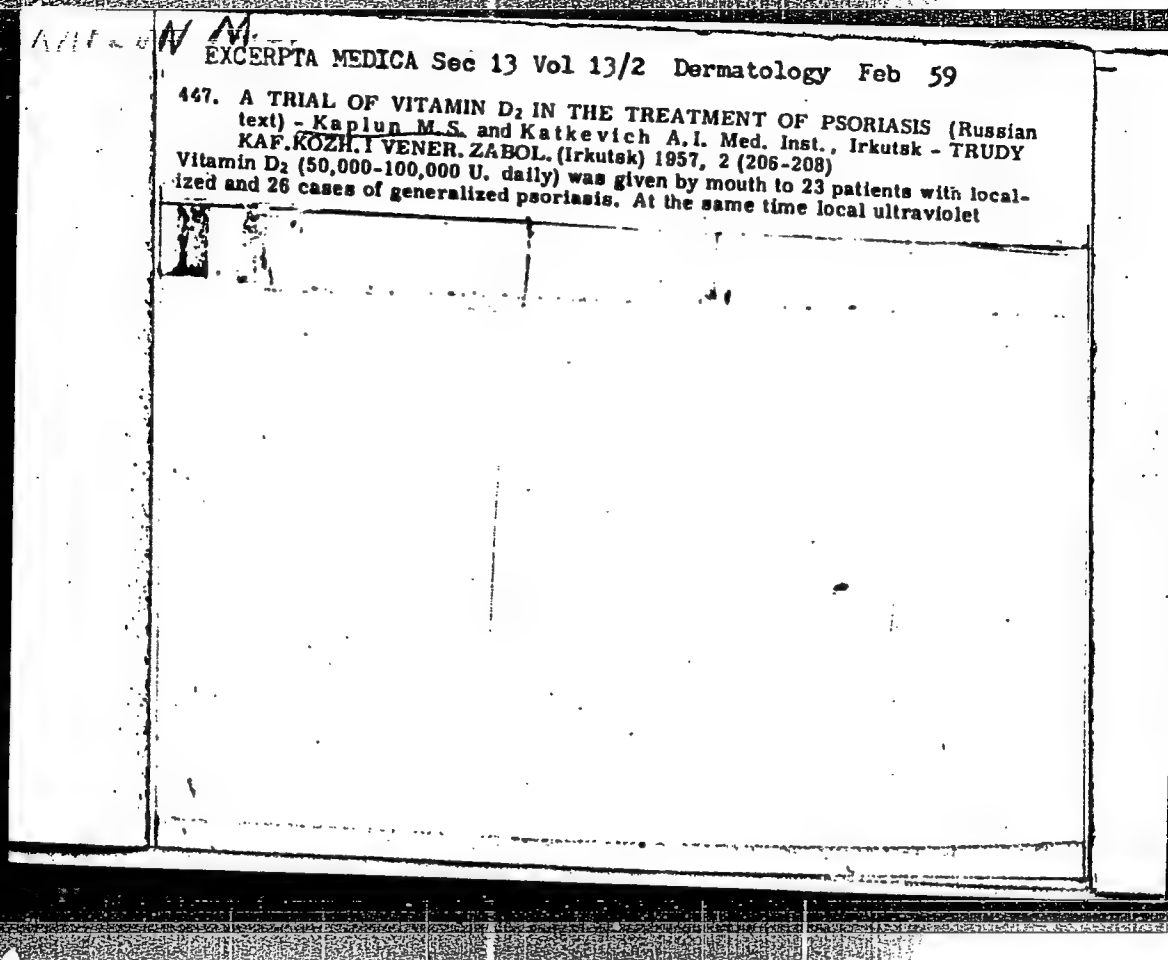
41774

"The Role of the Skin in the Immunizing Process," Zhurn. Med. byull. 8
(Journal of Medicine, Bulletin 2), 64-74, 1948

KATLUN, M. S. Professor.

"The History of Dermatology."

Vestnik venerologii i dermatologii (Bulletin of Venerology Dermatology),
No 1, January-February 1954, (biomper), Moscow.



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irradiation and oxygenotherapy were prescribed. Rapid improvement with normalization of the hydrophilic properties of the skin occurred in the majority of cases. Vitamin D₂ was found to be most effective in the acute stages of the disease, while in stationary or regressive stages it is also indicated and should be combined with ultraviolet irradiation or oxygenotherapy.

Mashkilleison Jr - Moscow (S)

KAPLUN, M.S., prof. (Irkutsk)

Toward the All-Union Congress of Dermatologists and Venereologists.
Vest.derm.i ven. 33 no.5:12-14 S-0 '59. (MIRA 13:2)
(DERMATOLOGY)
(VENEREAL DISEASES)

KAPLUN, M.S. (Irkutsk)

Problem of causality in dermatology. Vest. dermat. i ven. 38 no.10:
9-13 0 '64. (MIRA 18:7)

KAPIUN, M.Ye.

Combination of two tumors with different localization and
morphological structure in a patient. 2drav. Bel. 9 no.6:77-78
Je '63. (MIRA 17:5)

1. Iz 39-y Ob'yedinennoy moskovskoy gorodskoy bol'nitsy
(glavnyy vrach - S.I. Fedorova).

KAPLUN, M.Ye.

Mesothelioma of the epididymis. Urologia 28 no.2:61-62
Mr-Apr'63. (MIRA 16:6)

1. Iz 39-y ob"edinennoy gorodskoy bol'nitsy (glavnyy vrach
S.I.Fedorova), Moskva.
(EPIDIDYME—CANCER)

KAPLUN, N., mayor tekhnicheskoy sluzhby

Quickly and economically. Tyl i snab. Sov. Voor. Sil 21
no. 11:85-86 N '61. (MIRA 15:1)
(Russia--Army--Fuel)

KAPLUN, N.

The brigade guarantees the quality. Stroitel' 8 no. 5:23-24 My '62.
(MIRA 15:7)

(Building—Details)

KAPLUN, N.

Overall mechanization of finishing work. Sel'. stroi.
no. 10:23-24 0 '62. (MIRA 15:11)

1. Rukovoditel' gruppy peredovykh metodov truda
normativno-issledovatel'skoy stantsii No.3 Permskogo
soveta narodnogo khozyaystva.

(Perm Province—Building—Technological innovations)

YAREMA, V., inzh.; KAPLUN, N., inzh.

Experience with large-panel construction in Karaganda.

Stroitel' 8 no.2:3-4 F '62.

(MIRA 16:2)

(Karaganda—Apartment houses)

(Precast concrete construction)

KAPLUN, N.

Products made from sawdust. Sel'. stroi. 17 no.4:25-26 Ap '63.
(MIRA 16:7)

1. Rukovoditel' gruppy normativno-issledovatel'skoy stantsii
Permskogo soveta narodnogo khozyaystva.
(Wood waste) (Building materials)

ABRIKOSOV, I.A.: KAPLUN, N.A.

Method and dosage in bromine ionogalvanization. Vop.kur.fizioter.
i lech.fiz.kul't no.1:61-66 Ja-Mr '55. (MLRA 8:8)

1. Nauchno-issledovatel'skiy institut fizioterapii Ministerstva
zdravookhraneniya RSFSR (direktor--prof. A.N. Oborotov)
(BROMINE, administration,
ionic galvanization method)

KAPLUN, N.A.

Use of general galvanization with potassium iodide and magnesium sulfate for treating hypertension in elderly people, in a polyclinic. Vop.kur.fizioter. i lech.fiz.kul't no.3:63-64
Jl-S '55. (MLRA 8:8)

1. Iz Nauchno-issledovatel'skogo instituta fizioterapii Ministerstva zdravookhraneniya RSFSR (dir.--prof. A.N. Obrosoy)
 - (HYPERTENSION, therapy
 - iontophoresis with potassium iodide & magnesium sulfate)
 - (ION TRANSFER, therapeutic use
 - Hypertension, with potassium iodide & magnesium sulfate)
 - (MAGNESIUM SULFATE, ther. use
 - iontophoresis in hypertension)
 - (IODIDES, ther. use
 - potassium iodide. iontophoresis in hypertension)

KAPLUN, N.A., kandidat meditsinskikh nauk

Prolonged diathermy in combined therapy of peptic ulcer. Terap.
arkh.27 no.3:65-68 '55. (MLRA 8:9)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta
fizioterapii (dir.-prof. A.N. Obrosoy) Ministerstva Zdravoo-
khraneniya RSFSR.

(PEPTIC ULCER, therapy,
diathermy in combined ther.)
(DIATHERMY, in various diseases,
peptic ulcer, in combined ther.)

ABRIKOSOV, I.A. [deceased], ZAKHAROVA, Ye.A., KAPLUN, N.A., MARKOVNIKOVA,
Y.B., OBROSOV, A.N., POZDNEYEVA, N.K., PUCHKOV, N.V.

Basic problems in galvano-ionization and electrophoresis.

Vop.kur.fizioter. i lech. fiz. kul't. 23 no. 5:390-398 S-0 '58

(MIRA 11:11)

1. Iz Nauchno-issledovatel'skogo instituta fizioterapii Ministerstva
zdavookhraneniya RSFSR (dir. - chlen-korrespondent AMN SSSR prof.
A.N. Obrosov).

(ELECTROPHORESIS)

KAPLUN, N.A.; PLEMYANNIKOVA, M.N.; SKURIKHINA, L.A.; SYROYECHKOVSKAYA,
M.N.; FEDOROVICH, N.V.; OBROSOVA, A.N., prof., red.; MANIKOV,
M.Ye., red.; ZAKHAROVA, A.I., tekhn.red.

[Practical manual on applying physiotherapeutic procedures]
Prakticheskoe rukovodstvo po provedeniiu fizioterapevticheskikh
prottsedur. Pod obshchei red. A.N.Obrosova. Moskva, Gos.izd-vo
med.lit-ry Medgiz, 1960. 182 p. (MIRA 14:3)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for
Obrosova).

(PHYSICAL THERAPY)

ABRIKOSOV, I.A. [deceased]; ZAKHAROVA, Ye.A.; KAPLUN, N.A.

Use of adrenaline and novocaine electrophoresis in the over-all treatment of hypertensives with cardiac symptoms. Report No.1. Vop. kur., fizioter. i lech. fiz. kul't. 25 no.4:299-304 J1-Ag '60. (MIRA 13:9)

1. Iz Nauchno-issledovatel'skogo instituta fizioterapii Ministerstva zdravookhraneniya RSFSR (dir. - prof. A.N. Obrosoy).
(ADRENALINE) (NOVOCAINE)
(ELECTROPHORESIS) (HYPERTENSION)

ABRIKOSOV, I.A.; ZAKHAROVA, Ye.A.; KAPLUN, N.A.; PUCHKOV, N.V.
MARKOVNIKOVA, Ye.B.; POZDNEYEVA, N.K.

Clinical and physiological basis for the use of adrenaline
electrophoresis in the over-all treatment of hypertensive
patients with cardiac symptoms. Report No. 2. Vop. kur.
fizioter. i lech. fiz. kul't. 25 no. 5:390-396 S-O '60.

1. Iz Nauchno-issledovatel'skogo instituta fizioterapii Ministerstva
zdravookhraneniya RSFSR (dir. - prof. A.N. Obrosov).
(ELECTROPHORESIS) (ADRENALINE) (HYPERTENSION)

VINOGRADOV, N.A., prof.; KAPLUN, N.A.;

Fundamental principles and new methods for the use of galvanic current and electrophoresis in compound treatment of cardiovascular diseases. Vop-kur., fizioter. i lech. fiz. kul't. 27 no.4:289-296 J1-Ag'62 (MIRA 16:11)

1. Iz fizioterapevticheskogo otdela (zav.-prof. N.A.Vinogradov) Tsentral'nogo instituta kurortologii i fizioterapii (direktor-kand.med. nauk G.N. Pospelova).

*

KAPLUN, N.A.; OBROSOV, A.N.

Combined and consecutive use of physiotherapeutic effects.

Vop. kur., fizioter. i lek. fiz.kul't. 28.no.2:97-104
Mr-Ap'63. (MIRA 16:9)

1. Iz Tsentral'nogo instituta kurortologii i fizioterapii
(dir.- kand.med.nauk G.N.Pospelova)
(PHYSICAL THERAPY) (PHARMACOLOGY)

LEYTES, F.L.; DOLINA, L.A.; KAPLUN, N.A.

Effect of novocaine electrophoresis on changes in the action
of lipolytic enzymes in experimental arteriosclerosis. Dokl.
AN SSSR 150 no.4:909-912 Je '63. (MIRA 16:6)

1. Tsentral'nyy nauchno-issledovatel'skiy institut kurorto-
logii i fizioterapii. Predstavleno akademikom A.N. Bakulevym.
(ARTERIOSCLEROSIS) (LIPOLYSIS)
(NOVOCAINE) (ELECTROPHORESIS)

KAPLUN, N.A.; NEWSTRUYEVA, V.S.; OBROSOV, A.N.; RAZUMOVA, I.L.;
CHERNUKH, A.M.

Effect of a galvanic current on the inflammation focus; experimental examination. Vop.kur., fizioter. i lech. fiz. kul't.
27 no.5:417-420 S-0'62. (MIRA 16:9)

1. Iz otdela eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh) Instituta farmacologii i khimioterapii (dir. deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) i otdela fizioterapii (zav. - prof. N.A.Vinogradov) Instituta kurortologii i fizioterapii (dir. - kand.med. nauk G.N. Pospelova)Ministerstva zdravookhraneniya RSFSR.
(ELECTROTHERAPEUTICS) (FOCAL INFECTION)

KAPLUN, N.A.; DRONOVA, L.M.; BELICH, Ye.M.; EMANUEL', N.M., prof.

Effect of direct current on the development of transplantable leukemia in mice. Biul. eksp. biol. i med. 60 no.7:102-104 J1 '65. (MIRA 18:8)

1. Otdel khimicheskikh i biologicheskikh protessesov (zav.-chlen korrespondent AN SSSR prof. N.M. Emanuel') Instituta khimicheskoy fiziki (direktor - akad. N.N. Semenov) AN SSSR i otdel bal'neofizioterapii (zav.-chlen-korrespondent AMN SSSR prof. A.N. Obrosoy) Tsentral'nogo nauchno-issledovatel'skogo institut kurortologii i fizioterapii (direktor - kand. med. nauk G.N. Pospelova) Ministerstva zdravookhraneniya SSSR, Moskva.

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ACC NR: AP6014008

SOURCE CODE: UR/0219/65/060/007/0102/0104

AUTHOR: Keplun, N. A.; Dronova, L. M.; Belich, Ye. M.--Belich, E. M.; Emanuel', N. M.
--Emanuel, N. M. (Professor; Corresponding member AN SSSR); Parin, V. V. (Active member AMN SSSR) 35

ORG: Department of Chemical and Biological Processes /headed by Corresponding member AN SSSR, Professor N. M. Emanuel'/, Institute of Chemical Physics /directed by Academician N. N. Semenov/, AN SSSR (Otdel khimicheskikh i biologicheskikh protsessov Instituta khimicheskoy fiziki AN SSSR); Department of Balneological Physiotherapy /headed by Corresponding member AMN SSSR, Professor A. N. Obrosof/, Central Scientific Research Institute of Health Resorts and Physiotherapy /directed by Candidate of medical sciences G. N. Pospelova/, Ministry of Public Health Services, SSSR, Moscow (Otdel bal'neofizioterapii Tsentral'nogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii Ministerstva zdravookhraneniya SSSR)

TITLE: Effect of direct current on the development of transplanted leukosis in mice

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 7, 1965, 102-104

TOPIC TAGS: bone marrow, mouse, electrophysiology, direct current, hematopoiesis

ABSTRACT: Investigations were conducted to determine the effect of different doses of direct currents on the development of leukosis. Eighty male mice with transplanted La leukosis were under observation. The weight of the

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UDC: 615.843-03: 616-006.446-092.9+616-006.446-085.8437-092.9

L 23402-66

ACC NR: AP6014008

spleen, the number of leukocytes and hemocytoblasts in one square millimeter of blood, and the percent content of hemocytoblasts in the bone marrow of controls, and in the animals to which direct current was applied were studied. The current was applied to the experimental mice by placing electrodes on both shaved sides of the animals. The electrode placed on the right side was connected to the positive pole of a galvanizing apparatus; the electrode placed on the left side of the animals was connected to the negative pole. The current was applied at different intensities for various periods. Four series of experiments were carried out. The animals were sacrificed at different times. Examinations established that a direct current not only did not increase the weight of the spleen, but in some cases decreased it; it practically caused no change in the number of leukocytes and hemocytoblasts in the blood; neither did it have any effect on the number of hemocytoblasts in bone marrow. It was thus established that direct current, regardless of the dosage applied, has no effect on the development of transplanted leukosis. This paper was presented by V. V. Parin, Active member AMN SSSR. The authors thank N. V. Puchkov and N. A. Vinogradov for assistance in the work. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 10Dec63 / ORIG REF: 008

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KAPLUN, N.A.; NEVSTRUYEVA, V.S.; MITROFANOV, V.S.; OBROSOV, A.N.; PUCHKOV,
N.V.; CHERNUKH, A.M.

Experimental observations on new methods for the administration
of antibiotics of the tetracycline group. Antibiotiki 5 no.6:36-
41 N-D '60. (MIRA 14:3)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh)
Instituta farmakologii i khimioterapii i otdel fizioterapii (zav. -
prof. N.A.Vinogradov) Instituta kardiologii i fizioterapii Ministerstva
zdravookhraneniya SSSR.

(TETRACYCLINE)

SMIRNOV, Aleksandr Vasil'yevich; BELORUCHEV, Lev Vladimirovich;
KAPLUN, Ruvim Iosifovich; MORSHTEYN, Isaak Mikhaylovich;
TSUKANOV, Vladimir Andreyevich; NACHINKOV, A.D., red.

[Nitriding passivating steels with the use of carbon tetrachloride] Azotirovanie passiviruiushchikhsia stalei s primenieniem chetyrekhkhlorigo ugleroda. Leningrad, 1964. 20 p. (Leningradskii dom nauchno-tehnicheskoi propagandy. Peredovoi proizvodstvennyi opyt. Seriya: Metallovedenie i termicheskaya obrabotka, no.3) (MIRA 17:7)

EWING / EBN EWING / EBN EWING / EBN EWING / EBN EWING / EBN EWING / EBN EWING / EBN

ACCESSION NR: AP5005649

S 0145 95 000 002 7 111

AUTHOR: Gulyayev, B. B., Kuzin, A. V., Kaplun, R. I.

TITLE: Decreasing the number of scabs and nonmetallic inclusions in Kh18N9Ti. steel castings

SOURCE: IVUZ. Chernaya metallurgiya, no. 2, 1965, 142-147

TOPIC TAGS: casting defect, casting scab, casting inclusion, nonmetallic inclusion, steel
casting/Kh18N9Ti 4

ABSTRACT: When making castings of Kh18N9TL steel, considerable quantities of cracks and nonmetallic inclusions are often formed. The present authors studied the conditions for avoiding these casting flaws. The temperature of casting, holding time, and the

Card 1/2

L 33904-65

ACCESSION NR: AP5005849

1500C. The conclusion is that casting should be done at 1600-1630C. Foundry practice showed that casting rejects could be cut to one third of normal by taking care of this. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Sverdlovskiy gosudarstvennyy politekhnicheskii institut (The North Ural Polytechnical Institute), Yekaterinburg, U.S.S.R.

SUBMITTED: 01Jul64/--Feb65 ENCL: 00 SUB CODE: MM

NO REF SOV: 000

OTHER: 000

Card 2/2

KAPLUN, S.

USSR/Cultivated Plants - Technical, Oil, and Sugar Plants.

M-4

Abs Jour : Ref Zhur - Biol.; No 3, 1958, 10882

Author : Kaplun, S.

Inst : Central Station of Fertilizers and Agricultural Soil Husbandry.

Title : The Effect of Azotobacterin on Cotton Productivity.

Orig Pub : Khlopkovodstvo, 1957, No 5, 33-35

Abstract : Field and vegetation experiments conducted in 1955-1956 on the Central Station of Fertilizers and Agricultural Soil Husbandry (Union Scientific Research Cotton Institute) have indicated that the steadiest cotton yield increases from bacterization of the seed with an isolated local strain of azotobacterin M-1 were achieved on plots which had been enriched with organic fertilizers and also on those plots where the cotton was sown in the first

Card 1/2

KAPLUN, S.A.

Using wood fiber blocks in laying floors in apartment houses and public buildings. Gor. khoz. Mosk. 32 no.7:8-10 J1 '58.

(MIRA 11:6)

1. Glavnyy inzhener Upravleniya kapital'nogo stroitel'stva Mosgorispolkoma.

(Wood, Compressed) (Floors)

KAPLUN, S. A., CAND BIO SCI, "AZOTOBACTER IN IRRIGATED
SOILS AND CONDITIONS FOR ITS EFFECTIVE APPLICATION."
TASHKENT, 1961. (TASHKENT STATE UNIV IN V. I. LENIN).
(KL, 3-61, 210).

LAZAREV, S.F.; KAPLUN, S.A.

Studying the role of microflora in the root feeding of the
cotton plant. Uzb.biol.shur. no.1:14-19 '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khlopko-
vodstva.

(COTTON)

(RHIZOSPHERE MICROBIOLOGY)

LAZAREV, S.F.; KAPLUN, S.A.

Effect of root microorganisms on radical microflora and the
development of cotton. Uzb. biol. zhur. no.5:5-11 '61.
(MIRA 17:2)

1. Institut pochvovedeniya Ministerstva sel'skogo khozyaystva
UzSSR.

KAPLUN, S. L.

PA 26/49T30

USSR/Engineering
Construction Industry
Metallurgical Plants

Aug 48

"Production Enterprises for Construction of Installations in the Ferrous Metallurgy Field,"
S. L. Kaplun, 1 p

"Stroitel' Prom" No 8

Describes various installations built and put into operation in the ferrous metallurgy field. Discusses raw material requirements based on planned construction for 1950. Lists new equipment at various plants.

26/49T30

KAPLUN, S.L.; KOZAKOV, A.Ya., inzh.

Shortcomings in designing residential and public buildings. Gor.
khoz. Mosk. 34 no.10:6-10 0 '60. (MIRA 13:10)

1. Glavnyy inzhener Upravleniya kapital'nogo stroitel'stva Mosgoris-
polkoma (for Kaplun).
(Moscow--Building)

ZARAYSKIY, Leonid Arsen'yevich; ~~KARLUN, S.M.~~, nauchnyy redaktor; SHAURAK, Ye.H., redaktor; DVORAKOVSKAYA, A.A., tekhnicheskii redaktor; KAMOLOVA, V.M., tekhnicheskii redaktor

[Machining of screw propellers] Mekhanicheskaya obrabotka grebnykh vintov. Leningrad, Gos.soiuznoe izd-vo sudostroit. promyshl., 1957. 167 p. (MIRA 10:9)
(Propellers)

KAPLUN, S.M., inzh.

New method of making master forms for propellers. Sudostroenie 24
no.4:35-36 Ap '58. (MIRA 11:4)
(Propellers) (Machine-shop practice)

POPYRIN, L.S. (Irkutsk); KAPLUN, S.M. (Irkutsk)

Overall optimization of the parameters of thermal electric power
plants. Izv. AN SSSR. Energ. i transp. no.5:608-619 S-0 '64.

(MIRA 17:12)

ADDITIONAL

RESEARCH REPORT

ADDITIONAL RESEARCH REPORT

THE DESIGN OF A THERMOELECTRIC STATION
AND THE USE OF ELECTRONIC COMPUTERS

RESEARCH REPORT

TOPIC TAGS: optimization, thermoelectric station, mathematical
model, aircraft design, computer simulation

BEST DIRECTION FOR THE SELECTION OF AN OPTIMUM

Card 1/2

ACQUISITION NR. AF 100004

1. The following information was obtained from the
2. source of information, who is a reliable source,
3. that the source of information has been identified
4. as a reliable source of information.
5. The source of information has been identified
6. as a reliable source of information.

1. The following information was obtained from the
2. source of information, who is a reliable source,
3. that the source of information has been identified
4. as a reliable source of information.
5. The source of information has been identified
6. as a reliable source of information.

Card 2/2

ROSHCHIN, A.M.; KAPLUN, S.M.; POPIRIN, L.S.

Problems in determining hydrodynamic parameters of water and
water vapor conditions in calculating with electronic computers.
Izv. SO AN SSSR no.6. Ser. tekhn. nauk no.2:72-79 '65.

(MIRA 18:11)

1. Irkutskiy energeticheskiy institut Sibirskogo otdeleniya
AN SSSR.

POPYRIN, L.S. (Irkutsk); KAPLUN, S.M. (Irkutsk); DIRBA, D.A. (Irkutsk)

Algorithm for the optimization of the parameters of thermal
power systems. Izv. AN SSSR. Energ. i transp. no.3:96-104
My-Je '65. (MIRA 18:12)

1. Submitted February 1, 1965.

POPERIN, I.S., kandi. tekhn. nauk; KAPLUN, S.M., inzh.

Principles of the overall optimization of the shape of a thermal electric power plant based on mathematical programming with electronic computers. Teploenergetika 12 no.8:52-58 Ag '65.
(MIRA 18:9)

1. Energeticheskiy institut Sibirskogo otdeleniya AN SSSR.

L 46116-66 EWT(d)/I/EWP(1) IJP(c)

ACC NR: AP6019734

SOURCE CODE: UR/0096/66/000/007/0072/0075

AUTHOR: Popyrin, L. S. (Candidate of technical sciences); Kaplun, S. M. (Engineer); Anishkova, A. G. (Engineer)

ORG: Power Engineering Institute SO AN SSSR (Energeticheskiy Institut SO AN SSSR)

TITLE: Mathematic model of a thermal power unit for complex analysis

SOURCE: Teploenergetika, no. 7, 1966, 72-75

TOPIC TAGS: mathematic model, thermal energy conversion, iteration, digital computer, steam turbine, *thermoelectric power plant / BESM-2 digital computer*

ABSTRACT: The authors discuss the procedures and results for setting up a mathematical model for thermal power installations based on promising steam turbine assemblies. The Seidel method is used for all computations. The final equation is the product of a whole system of assembly equations presented in vector form. This method may be used to study the thermal characteristics of a particular unit with respect to a large number of different units by logic coding. A universal program algorithm is set up with respect to the number of assemblies and their connections for choosing the type of assemblies or types of equation subsystems. The computations are verified on the BESM-2 digital computer. The results show a close correlation between systems

Card 1/2

UDC: 62-501.72.621.311.22.001.57

L 46116-56

ACC NR: AP6019734

of equations in the functional parameter region. It is also shown that the number of iterations as a function of required accuracy is close to logarithmic, i. e. computational accuracy increases by one order of magnitude with each iteration. The machine time for one iteration is 10-15 seconds. Most of this time is used in determining the parameters of water and steam conditions at various points of the thermal system by a special program. The mathematical model should find application in solving various problems for development of large thermal power units. Orig. art. has: 4 formulas.

SUB CODE: 12, 09/10/SUBM DATE: None/ ORIG REF: 006/ OTH REF: 002

Card 2/2 LC

ACC NR: AP7005446

SOURCE CODE: UR/0281/66/000/005/0015/0025

POPYRIN, L. S. (Irkutsk); Kaplun, S. M. (Irkutsk); Anishkova, A. G. (Irkutsk)

"Optimization of the Make-up of Heating Surfaces in a Steam Generating Plant by Dynamic Programming Methods"

Izvestiya Akademii Nauk SSSR, Energetika i Transport, No. 5, 1966, pp. 15-25.

Abstract: The principles for optimization of the make-up of modern large steam generating plants are presented. Three algorithms are suggested which use the ideas of dynamic programming, and problems of their application in computerized calculation are analyzed. In analyzing the prospects for further development and application of algorithms to the solution of the problem of selection of optimal component heating surfaces of steam generating plants, the authors feel that the most important problems are: optimization of the design parameters of heating surfaces, and optimization of the number of heating surfaces. The algorithms presented in this article for optimization of the make-up of heating surfaces allow a rather strict determination of the problem of the expedient number of surfaces in a steam generating plant and of the design parameters of the surfaces to be used. The principles and algorithms presented in the article have been used in determination of the optimal component solutions of a steam generating plant to be used with a 1000 megawatt power unit, using two intermediate steam superheating stages. Orig. art. has: 3 figures and 5 formulas.

[JPRS: 39,568]

ORG: none / TOPIC TAGS: steam power plant, algorithm, dynamic programming

Card 1/1 SUB CODE: 10,12 / SUBM DATE: 21May66 / ORIG REF: 008 UDC: 621.180:001.24

ACC NR: AM6032635

(N)

Monograph

UR/

Zvyagintsev, Yefim Vasil'yevich; Kaplun, Semen Markovich; Kryuger, Yevgeniy Adol'fovich; Lofenfel'd, Yevgeniy Grigor'yevich; Luchanskiy, Iosif Aleksandrovich; Yanovski, Aleksandr Aleksandrovich

Marine screw propellers of variable pitch; manufacture, assembly and testing (Sudovyye grebnyye vinty reguliruyemogo shaga; izgotovleniye, montazh i ispytaniya) [Leningrad] Izd-vo "Sudostroyeniye," 1966. 283 p. illus., biblio. 3,000 copies printed.

TOPIC TAGS: marine engineering, mechanical engineering

PURPOSE AND COVERAGE: The book is intended for technologists, designers, and other specialists interested in the problems of manufacturing, assembling, testing, and maintaining variable pitch propellers. General information is given and design methods and actual forces and moments acting on variable-pitch propellers are discussed. Data on the strength of and materials used in individual parts and methods for increasing their fatigue strength and corrosion resistance are presented. Technological manufacturing process of the main parts variable-pitch propellers, shafts, control mechanisms, as well as associated instruments and attachments, are described. Primary attention has been paid to the assembly and testing of variable-pitch propellers, their installation on vessels,

Card 1/2

UDC: 629.12.002.72.037

ACC NR: AN6032635

and marine tests. There are 12 references, all Soviet.

TABLE OF CONTENTS (abridged):

Foreward -- 3

Ch. I. General information on variable-pitch propellers -- 5

Ch. II. Materials used for fabricating parts and units of variable-pitch propellers -- 36

Ch. III. Methods for increasing the fatigue strength and the corrosion-fatigue strength of parts of variable-pitch propellers -- 55

Ch. IV. Manufacturing parts and units of variable pitch propellers -- 73

Ch. V. Tacking used in variable-pitch propeller designs -- 184

Ch. VI. Assembly of variable-pitch propeller units and assemblies -- 196

Ch. VII. Testing assembled variable-pitch propellers and individual assemblies -- 237

Ch. VIII. Transportation and installation on variable-pitch propellers on vessels -- 252

Ch. IX. Testing variable-pitch propellers aboard ship -- 262

Recommended literature -- 282

SUB CODE: 013/ SUBM DATE: 29Dec65/ ORIG REF: 012/

Card 2/2

KAPLUN, S. V.-

Kaplun, S. and Mamayev, P. - "On the evaluation and standardization of agricultural work in the operation of the kolkhozes", Sbornik rabot (Rost. nauch.-Issled. in-t ekonomiki sel. khoz-va), Issue 1, 1949, p. 129-50.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

KAPLUN, S. V.

The I.P. Denisenko tractor brigade 3. izd., ispr. i dop. Moskva, Gos. izd-vo

sel'khoz. lit-ry, 1954. 93. p. (55-26518)

8760. B9K33 1954

KOPTEVA, Ye.G.; KAPLUN, S.Ya.

Steady increase of arterial pressure in dog caused by interruption of the nervous function and effect of sulfur water. Zh. vysshei nerv. deiat. 2 no.5:734-741 Sept-Oct 1952. (CML 23:4)

1. Physiological Laboratory of the Balneological Institute imeni I. V. Stalin.

NEKHOROSHEV, N.P.; KAPLUN, S.Ya.; KOPTEVA, Ye.G.; NEVSKIY, N.A., professor,
direktor. ~~XXXXXXXXXX~~

Direct proof of hydrogen sulfide circulation in the blood while taking
hydrogen sulfide baths. Farm. i toks. 16 no.1:50-54 Ja-F '53. (MLRA 6:6)

1. Fiziologicheskaya laboratoriya Bal'neologicheskogo instituta imeni
I.V. Stalina na kurorte Sochi-Matsesta. (Hydrogen sulfide) (Blood--
Composition)

KAPLUN, Sarra Yakovlevna.

State Sci Res Balneological Inst imeni Stalin. Academic degree of Doctor of Biological Sciences, based on her defense, 11 June 1954, in the Council of the Institute of Physiology imeni Pavlov, Acad Sci USSR, of her dissertation entitled: "Materials on the Regulation of Physiological Processes During the Action of Hydrogen Sulphide Baths on an Organism."

Academic degree and/or title: Doctor of ^{Biol.} Sciences

SO: Decisions of VAK, List no. 13, 4 June 55, Byulleten' MVO SSSR, No. 15, Aug 56, Moscow, pp. 5-24, Uncl. JPRS/NY-537

KAPLUN, S.Y.; KOPTOVA, Ye.G.

Data on correlation between interoceptive and exteroceptive reflexes. Zhur.vys.nerv.deiat. 4 no.6:815-822 N-D '54. (MLRA 8:7)

1. Fiziologicheskaya laboratoriya Nauchno-issledovatel'skogo bal'neologicheskogo instituta im. I.V.Stalina na kurorte Sochi-Matsesta.
(REFLEX, CONDITIONED,
relation of interoceptive to exteroceptive reflexes)

KAPLUN, S.Ya.; KOPTOVA, Ye.G.

Effect of sulfur mineral water on strychnine poisoning. Farm. i toks.
55-56 '56. (MLRA 10:7)

1. Fiziologicheskaya laboratoriya Bal'neologicheskogo instituta
(Sochi)

(STRYCHNINE, poisoning,

exper., eff. of sulfur mineral water (Rus))

(MINERAL WATERS, effects,

sulfur water on exper. strychnine pois. (Rus))

KAPLUN, S.Ya.; KOPTEVA, Ye.G. (Sochi)

Effect of hydrogen sulfide in acute disorders of coronary circulation.
Arkhp.at. 18 no.7:58-64 '56. (MIRA 10:1)

1. Iz fiziologicheskoy laboratorii (zav. - doktor biologicheskikh nauk S.Ya.Kaplun) Nauchno-issledovatel'skogo bal'neologicheskogo instituta imeni I.V.Stalina (dir. - dotsent N.P.Vladimirov)
(CORONARY DISEASE, experimental,
eff. of hydrogen sulfide(Rus))
(SULFIDES, effects,
hydrogen sulfide on exper. coronar dis. (Rus))

KAPLUN, S. Ya.

KOPTEVA, Ye.G.; SHIKHOVA, N.M.; KAPLUN, S.Ya.; SHIKHOV, M.M. (Sochi)

Experimental myocardial infarct and hydrogen sulfide baths [with summary in English]. Arkh.pat. 19 no.5:45-53 '57. (MLRA 10:8)

1. Iz fiziologicheskoy laboratorii (zav. - doktor biologicheskikh nauk S.Ya.Kaplun) i terapevticheskoy kliniki (zav. - prof. M.M.Shikhov) Nauchno-issledovatel'skogo bal'neologicheskogo instituta imeni I.V. Stalina (dir. - dotsent N.P.Vladimirov)

(MYOCARDIAL INFARCT, exper.

eff. of hydrogen sulfide baths in dogs)

(BALNEOLOGY, in various dis.

hydrogen sulfide baths in experimental myocardial infarct in dogs)

V

Country : USSR
Category: Pharmacology. Toxicology. Anti-Infection Agents.

Abs Jour: RZhBiol., No 6, 1959, No 27848

Author : Kaplun, S.Ya.; Kopteva, Ye. G.; Shikhova, N.M.;
Shikhov, M.M.

Inst : -
Title : The Influence of Salycilamide on Compensatory Processes Under the Conditions of Experimental Disruption of Coronary Circulation.

Orig Pub: Vrachebn. delo, 1958, No 4, 429-432

Abstract: The experiments were conducted on dogs with a ligated anterior descending branch of the left coronary artery. As controls, dogs without surgical interventions of the heart were utilized. The

Card : 1/3 *Lab. Exptl. Pathology & Therapeutics*
Clinic Sci Res Inst Rheumatism

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720510007-9"

Country : USSR
Category: Pharmacology. Toxicology. Anti-Infection Agents.

Abs Jour: RZhBiol., No 6, 1959, No 27848

method of electrocardiography in three standard leads was utilized; the blood pressure was measured in the carotid artery which was abduced into a skin flap. Salycilamide (I) was introduced orally in a dose of 0.15 g/kg each for the duration of 25 days. Three dogs were taken for testing the action of I 1 year after ligation of the coronary artery. The fourth dog was the control. On the basis of changes of the ECG, a conclusion is made that the first and last intakes of I decrease deviations from normal; in the interval between them, unfavorable conditions for cardiac activity form. To the same dogs, for the duration of 25 days before and at the time of testing, thyroidin (II) was introduced

Card : 2/3

V-38

Country : USSR
Category: Pharmacology. Toxicology. Anti-Infection Agents.

V

KAPLUN, S.Ya.; KOPTEVA, Ye.G.

Electrocardiographic changes under the influence of aminazine
in dogs with normal and abnormal myocardial circulation. Farm. i
toks. 23 no.4:307-311 J1-Ag '60. (MIRA 14:3)

1. Laboratoriya eksperimental'noy patologii (zav. - doktor biologicheskikh nauk S.Ya.Kaplun) Sochinskogo nauchno-issledovatel'skogo instituta revmatizma.

(CHLORPROMAZINE) (ELECTROCARDIOGRAPHY)
(CORONARY HEART DISEASES)

KAPLUN, S.Ya.; KOPTEVA, Ye.G.; SHIKHOVA, N.M.; SHIKHOV, M.M.

New data on the effect of hydrogen sulfide baths on animals with experimentally induced disorders of the cardiac blood supply:
Vop. kur., fizioter. i lech. fiz. kul't. 25 no.4:304-309 JI-Ag '60.
(MIRA 13:9)

1. Iz Nauchno-issledovatel'skogo instituta revmatizma v Sochi (dir. - dotsent N.P. Vladimirov).

(HYDROGEN SULFIDE—PHYSIOLOGICAL EFFECT)
(CORONARY VESSELS)

SHIKHOV, M.M., prof.; SHIKHOVA, N.M., dotsent; KAPLUN, S.Ya., doktor biol.
nauk; KOPEVA, Ye.G., kand.med.nauk

Effect of salicylates on cardiac activity in experimental disturbance
of the coronary circulation (electrocardiographic data). Vrach. delo
no.6:14-18 Je '61. (MIRA 15:1)

1. Laboratoriya eksperimental'noy patologii (zav. - doktor biol.
nauk S.Ya. Kaplun) i terapevticheskaya klinika Sochinskogo instituta
kurortologii (zaveduyushchiy - zasluzhennyy deyatel' nauki, prof.
M.M.Shikhov).

(SALICYLATES) (ELECTROCARDIOGRAPHY)
(BLOOD CIRCULATION, DISORDERS OF)

KAPLUN, S.Ya.; KOPTEVA, Ye.G. [Koptieva, IE.H.]

Eosinopenic reaction as an indication of the reactivity of the organism
in a condition of disturbed blood supply of the heart. Fiziol. zhur.
[Ukr.] 8 no.2:214-219 Mr-Apr '62. (MIRA 1545)

1. Laboratory of Experimental Pathology of the Health Resort
Institute, Sochi.

(EOSINOPHILES) (ACTH) (BLOOD--CIRCULATION, DISORDERS OF)

KAPLUN, S.Ya.; KOPTEVA, Ye.G. [Koptieva, IE.H.]; PAVLIK, V.A. [Pavlyk, V.O.]

Role of the hypothalamus region in the mechanism of the effect of
salicylates on the body. Fiziol. zhur. [Ukr.] 8 no.4:513-518 J1-Ag
'62. (MIRA 18:4)

1. Laboratory of Experimental pathology of the Health Resort Institute,
Sochi.

KAPLUN, S. Ya.

Corticoadrenal system of the adrenal glands and the action of hydrogen sulfide baths. Vop. kur., fizioter. i lech. fiz. kul't. 29 no.4:303-307 J1-Ag '64. (MIRA 18:9)

1. Laboratoriya eksperimental'noy patologii (zav. - doktor biol. nauk S.Ya.Kaplun) Sochinskogo instituta kurortologii (dir. - prof. M.M.Shikhov).

KAPLUN, T.

~~Soviet consumers'~~ cooperative societies are extending their
international contacts [with English summary in insert]. Vnesh. torg.
28 no. 6:22-24 '58. (MIRA 11:8)

(Russia--Commerce)
(Cooperative societies)

KAPLUN, T.

International trade relations of the Central Union Consumers'
Cooperatives [with English summary in supplement]. Vnesh. torg.
29 no.3:10-12 '59. (MIRA 12:7)
(Russia--Foreign economic relations)
(Cooperative societies)

KAPLUN, T.

Trade with foreign cooperatives is expanding. Vnesh. torg.

29 no.11:32 '59. . .

(MIRA 12:12)

(Commerce)

KAPLUN, T.

Foreign trade ties of Soviet cooperatives are expanding. Vnesh.
torg. 30 no.10:22-25 '60. (MIRA 13:10)
(Cooperative societies) (Russia--Commerce)

KAPLUN, T.

For developing international cooperative trade. Vnesh. torg.
43 no.10:23-25 '63. (MIRA 16:11)

SOV/138-59-4-16/26

AUTHOR: Kaplun, T.S.

TITLE: A Conference at the Research Institute for the Tyre Industry (Soveshchaniye v nauchno-issledovatel'skom institute shinnoy promyshlennosti)

PERIODICAL: Kauchuk i Rezina, 1959, Nr 4, pp 49 - 50 (USSR)

ABSTRACT: A Conference held at the NIIShP (Research Institute for the Tyre Industry) from 9th to 12th March, 1959, discussed the aspects of co-ordination of research and experimental work in the tyre industry. It was attended by representatives of the tyre industry, of the central plant laboratories and the construction offices of the tyre industry, of some Councils of National Economy, of the Gosudarstvennyy Komitet Soveta Ministrov SSSR po khimii (State Committee of the Council of Ministers of the USSR for Chemistry), of "Rezinoprojekt", of Gosplan UkrSSR (State Planning Commission for Ukraine) etc. The NIIShP Deputy Director for Research, V.F.Yevstratov reviewed the research work of the Institute during 1958, as well as plans for 1959, especially with reference to the directives given at the 21st Party Congress. He drew attention to the fact that the quality of tyres was not entirely satisfactory and recommended using better quality materials,

Card 1/3

SOV/138-59-4-16/26

A Conference at the Research Institute for the Tyre Industry

improved design of the tyres, and discussed the work carried out at the NIIShP. The speaker emphasised that by 1965 the tyres of Soviet manufacturers should be able to compete with Western production. Further papers were read by the chief chemists of the laboratories and construction offices of the Yaroslavl', Moscow, Omsk, Leningrad, Voronezh and Kirov tyre factories. These speakers reviewed the use of new types of synthetic rubbers, cords and carbon black and the improved design of tyres for cars, agricultural machinery, etc. P. F. Badenkov, Director of the Upravleniye shin (Tyre Administration) and RTI of the State Committee of the Council of Ministers of the USSR for Chemistry, recommended that the research and experimental work of the plant laboratories and construction offices should be reorganised.

Card 2/3 This would ensure the most efficient utilization of raw

SOV/138-59-4-16/26

A Conference at the Research Institute for the Tyre Industry

material resources. The manager of the construction sector of Rezinoprojekt, I. S. Kantor, compared foreign and Soviet achievements in the tyre industry, and the manager of the KEO for Car Tyres of the NIIShP, I. I. Seleznev, read a paper on "New Achievements in the Design of Foreign Tyres".

Card 3/3

KAPLUN, V. A.

A. A. Pistol'kors, V. A. KAPLUN, L. V. Kniazeva: "On electromagnetic wave diffraction at a dielectric or semiconducting sheet." Scientific Session
Devoted to "Radio Day", May, 1958, Trudrezervizdat, Moscow, 9 Sep. 58

Diffraction at a dielectric or semiconducting sheet is investigated by the Kirchhoff method and expressions are derived which are valid for points sufficiently far from the edges and the surface of the sheet. Certain particular diffraction cases are analyzed.

KAPLIN, VA.

В. М. Петер
Эффективность и помехоустойчивость повторит
источник излучения передатчика сигнала.

В. М. Токмаков
Помехоустойчивость приемника по каналу ИДУ.

2. СЕКЦИЯ АНТЕННЫХ УСТРОЙСТВ
Руководитель А. Р. Шаповал

9 июня
(с 10 до 16 часов)

В. А. Куликов
Вопросы проектирования передатчика антенны для
телевизионного и УКВ сигналов.

А. М. Мельник
Е. А. Андреев

Антенны радиотехнической связи для радиотехнических
устройств, работающих в диапазоне сантиметровых и дециметровых волн.

В. К. Наренков
Антенны для связи с использованием волн
длинной радиоволны.

М. К. Соколов
Диагностика состояния антенн безлучевых антенн.

А. А. Матвеев
Исследования радиолокационных антенн для ра-
диотехнических антенн.

9 июня
(с 18 до 22 часов)

В. М. Андреев,
М. М. Барков,
М. Е. Бондарев

К вопросу о влиянии помех на эффективность
диагностики радиотехнических устройств, работающих
в диапазоне сантиметровых волн.

В. А. Козлов

О влиянии внешнего электромагнитного поля на
диагностику радиотехнических устройств.

В. М. Мельников

Некоторые случаи расчета радиотехнических
устройств.

В. М. Тупин

Дифракция электромагнитных волн на антеннах с
переменными параметрами.

М. А. Тихонов

Влияние радиотехнических антенн на антенны ра-
диотехнических устройств.

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TITLE: Diffraction of Electromagnetic Waves at a Dielectric or a Semiconductor Sheet (O difraktsii elektromagnitnykh voln u dielektricheskogo ili poluprovodyashchego lista)

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ABSTRACT: The system considered is illustrated in the diagram of Figure 1. For the purpose of analysis it is assumed that the surface waves can be neglected. The external surface of the sheet is infinite along the axis z and coincides with the plane $x = 0$. The surface is limited in the direction of the axis y by co-ordinates $y = 0$ and $y = b$. A plane wave propagates from the upper semi-space and forms an angle φ_0 with the plane $x = 0$. It is necessary to find the field at a point M which is situated in the lower semi-space. For this purpose the elementary fields at point M , due to the electric and magnetic currents in the plane $x = 0$, should be added. If the amplitude of the plane wave is unity, it is necessary

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to introduce a factor $Te^{-i\psi}$ which characterises the attenuation of the wave during its passage through the sheet and the accompanying phase shift. The electric field at point M is given by the sum of three integrals:

$$E = \int_{-\infty}^0 F(E_t, H_t, y) dy + Te^{-i\psi} \int_0^b F(E_t, H_t, y) dy + \int_b^{\infty} F(E_t, H_t, y) dy \quad (1)$$

where E_t and H_t are the tangential components of the electric and magnetic field at the plane $x = 0$; F is the function which takes into account the effect of the plane $x = 0$. Eq (1) can also be written as Eq (2).

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